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(54) PRODUCTION OF CONDENSED HETEROCYCLIC COMPOUND

(57)Abstract:

PURPOSE: To produce the title compound which is used as an intermediate of medicines, agricultural chemicals, or the like, industrially in high yield by reaction of a specific compound and another specific compound.

CONSTITUTION: The reaction between a compound of formula I or II (R1 is lower alkyl, phenyl; n is 3, 4) and more than one equivalent amount, preferably 1.2 to 3.0 equivalent amount of another compound of formula III (R2 is lower alkyl; R3 and R4 are H, alkyl, phenyl or R3 and R4 may form a cycloalkyl together with the carbon atoms bonding to R3 and R4) is conducted in the absence of a solvent, preferably in an inert solvent such as benzene at about 100 to 200°C. Then, the reaction mixture is allowed to stand for cooling down to room temperature and the crystals are filtered off to give the objective compound of formula IV. During the reaction, thermal decomposition occurs to form a carbonyl compound, but it is advantageous to effect the reaction, as the by-product is distilled off from the reaction system, when the boiling point of the ketone is lower than the reaction temperature.

